

Title (en)
TITANIUM SHEET

Title (de)
TITANBLECH

Title (fr)
FEUILLE DE TITANE

Publication
EP 3623487 A4 20201104 (EN)

Application
EP 17923823 A 20170831

Priority
JP 2017031403 W 20170831

Abstract (en)
[origin: EP3623487A1] A titanium sheet including the following chemical components in mass%: Cu: 0.70 to 1.50%, Cr: 0 to 0.40%, Mn: 0 to 0.50%, Si: 0.10 to 0.30%, O: 0 to 0.10%, Fe: 0 to 0.06%, N: 0 to 0.03%, C: 0 to 0.08%, H: 0 to 0.013%, elements except the above and Ti: 0 to 0.1% each, with a total amount of the elements being 0.3% or less, and the balance: Ti, wherein A value defined by Formula (1) is 1.15 to 2.5 mass%, and the titanium sheet having a metal microstructure in which an area fraction of an α phase is 95% or more, an area fraction of a β phase is 5% or less, and an area fraction of an intermetallic compound is 1% or less, wherein an average crystal grain size D (μm) of the α phase is 20 to 70 μm and satisfies Formula (2).

IPC 8 full level
C22C 14/00 (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP KR US)
B21B 3/00 (2013.01 - KR); **C22C 14/00** (2013.01 - EP KR US); **C22F 1/183** (2013.01 - EP US)

Citation (search report)

- [A] EP 0992599 A1 20000412 - SUMITOMO METAL IND [JP]
- [AD] JP 2009068026 A 20090402 - NIPPON STEEL CORP
- [A] JP 2010121186 A 20100603 - KOBE STEEL LTD, et al
- [A] JP 2010242197 A 20101028 - KOBE STEEL LTD, et al
- See references of WO 2019043882A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3623487 A1 20200318; EP 3623487 A4 20201104; EP 3623487 B1 20211124; CN 111032894 A 20200417; CN 111032894 B 20210817; JP 6844706 B2 20210317; JP WO2019043882 A1 20200326; KR 102334071 B1 20211203; KR 20200024262 A 20200306; PL 3623487 T3 20220221; US 11459649 B2 20221004; US 2020385848 A1 20201210; WO 2019043882 A1 20190307

DOCDB simple family (application)
EP 17923823 A 20170831; CN 201780094137 A 20170831; JP 2017031403 W 20170831; JP 2019538857 A 20170831; KR 20207002712 A 20170831; PL 17923823 T 20170831; US 201716634834 A 20170831